BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Modified Estimate for the Work of Drilling of 20 Bore well providing & fixing of pump motor & necessary asseceries in ward No 12 in Shettihalli sub division, Dasarahalli Zone

Sl. No.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the Habitation either through the hand pump, MWS O PWSS by vertical electrical sounding by adopting veneer or Schlumbergers's method, including reconnaissance survey of Geological formation, Geophysical investigation of existing ground water in the vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc., (P 32, I 4)								
		No	18				18	1600	28800
2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over burdern upto 20 M. fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimu working of compressor for one hour (excluding cost of casing pipes, collars, cap etc.,) (P. No.36 I. No. 9.1) PRED SR. 2010-11								
	Upto 50.00m depth	M					900	265	238500
	Above 50.00 to 100.00m depth	M					900	345	310500
	Above 100.00 to 150.00m depth	M					900	380	342000
	Above 150m to 200m depth	M					900	440	396000
	Above ~~250.00~~ 200.00 to ~~300.00~~ 250 m depth	M					900	480	432000
3	Supplying of ISI Mark 175mm Nominal bore plain end steel casing pipe-grade of steel Fe 410, of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest emendments electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxyzen process in random length of 4 to 7 Mts, Both ends threaded confirming to IS 554/1985, one end fixed with a socket confirming to IS 4270:2001 and the other end with screwed pipes. all pipes shall be reasonably straight should be with ISI making, welding, weighing 25.10 kg/mtr (icnlusive of all taxes and duties) Prices include collar medium duty (P. No.II I. No.) PRED SR. 2010-11								
		M					838		
							400	1325	530000
	Up to 125%						100	1325	132500
	Above 125%						338	1325	447850
4	Providing 175mm dia MS cap						1876		
		No	18				18	100	1800
5	M.S Casing pipe collars 'C' Class						162		
							80	150	12000
	Up to 125%	No					20	150	3000

	Above 125%						62	150	9300
6	Providing and fixing of 50 mm dia PVC Pipe and as specification and direction RDED SR of 2006-07 P. 4 I. 4.30								
		M					30	850	25500
7	Supply and delivery at site brand new submersible PUMPSET suitable for borewell of 150mm dia and having declared duty conditions as detailed below and satisfying performance characteristic for pump and motor as declared by Bureau of Indian Standards. The pump should confirm to IS: 8034-1976 (with all its latest amendments) and should bear the ISI certification mark IS 8034-1976. The pumpset should consist of bronze impellers. discharge: 7500 lph, Head: 102.88 mts, 15.00 HP 25 Stage								
	15HP - 30stage	No	17				17	52000	884000
8	Providing laying and jointing GI pipes conforming to I.S. specification of approved make with fittings such as collers Bends Elbows Tees Nipples Plugs with cuts thread using white lead and thread for joints wherever necessary as per directions including all leads and lift etc., complete A Grade (Excluding cost of fittings) 50mm dia GI pipe (Rate approved by RDED)								
		M	1	3218.00			3218		
		M	4	30.00			120		
							3338	374	1248412
9	Providing and fixing heavy duty collars								
		No	1	553			553		
			4	6			24		
							577	170	98090
10	Supplying and delivery of brand new FINOLEX make PVC insulated Xst copper condutor to latest Indian Standard specification (Rate approved by RDED)								
		M	1	6900			6900		
			4	62			248		
							7148	96	686208
11	Supplying and delivery at site brand new / Essen / Lotus sunsines / Adarsh / GK controls best indigenous make combine energy meter - cum - controlpanel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof The unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided the combine energy meter cum - control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. complete T panel board shall be febricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 12.5 HP with Star Delta Starter								
		No	17				17	14800	251600

12	Fabricating supplying and mounting MS cox of 16 SWG suitable for floor / wall ɔunting, fully weather proof with providion for better heat discription, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm and Rs. 0.35								
		Sqm	398650				398650	0.35	139527.5
13	Providing and fixing of Clamps set and borewell cap to the pump (as per SPD Rate)								
		No	17				17	610	10370
14	Suppying and delivery of brand new best make Non-return valve of size 50mm as per IS : 778/84 with latest amendments with ISI mark BCSR Page no : 90 iteam no : 13.62								
		No	17				17	1350	22950
15	Suppying and delivery of brand new best make Gate wheel of size 50mm as per IS : 778/84 with latest amendments with ISI mark (Rate approved by RDED) 50mm Gate wheel Valve for distributer pipeline								
	50mm dia	No	17				17	1492	25364
	65 mm dia	No	17				17	1850	31450
16	Providing & fixing of 50mm G,I, bend to the Motor (Rate approved by S,E,PRED RATES)								
		No	68				68	220	14960
17	Providing & fixing of 50mm G,I, NIPPLE to the Motor (Rate approved by S,E,PRED RATES)								
		No	80				80	95	7600
	Up to 125%						20	95	1900
	Above 125%						2	95	190
18	Providing & fixing of 50mm G,I, UNION to the Motor (Rate approved by S,E,PRED RATES)								
		No	17				17	450	7650
19	End connection Labour charges (Rate approved by S,E,PRED RATES)								
		No	17				17	400	6800
20	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc,. Involved in the job (Necessary GI pipe and specials will be supplied by the board at the site free of cost) (Rate approved by RDED)								
		No	17				17	3500	59500

21	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc,. Complete for basement (P..D SR Electrica 99-2000 Page no. 60. I. no. 15) a) Out door type								13
		No	17				17	475	8075
22	Supplying and fixing miniature circuit breakers/Isolators on existing MCB distribution boards using necessary fixing materials and wiring complete as required - complete as (PWD SR ELECTRICALS PAGE NO :- 35/13)								
		No	17				17	1025	17425
23	Supplying and fixing polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs sorews etc,. SR ELECTRICALS PAGE NO:- 30, iteam no. 2 F)								
		No	17				17	350	5950
24	Supplying and Laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV calss (Confirming to IS 1554) (As per approved by SE (DZ) 2007-08)								
		M					426	200	85200
25	Digging of Trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces (PWD SR Electrical 99-2000 P. No. 59 I. No. 11d)								
		M					323	50	16150
26	Supplying and fixing Class--A GI Pipe on Pole / Wall / Drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (As per rate approved by SR page no 69, item no 15(A)								
		M					51	220	11220
27	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit./ The pit should be filled with equal proportion of salt and charocoal 150 mm alround the pipe to complete depth The connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122 mm dia (SR page no 66, iteam no 7)								
		No	17				17	1500	25500
28	Supplying and fixing LT cast iron pot Heads suitable for 1.1 KV class UG cable filled with necessary bitumen / insulating compound complete with terminals , clamps, bolts nuts and washers etc,.(SR page no 39, iteam no 16B)								
		No	17				17	240	4080
29	Supplying of porcelain fuse channel with cutouts (PWD SR Electrical 99-2000 P. No. 41, I. No. 17b)								
		No	51				51	36	1836
30	Suppying shunt capacitor's confirming to IS 2834,3 Phase 400/440 volts grade for power factor improvement of roatating machinery Capacitor in KVAR rating Nos. (PWD SR Electrical 99-2000 P. No. 24, I. No. 15b)								

		No	17				17	350	5950
31	Fixing a shunt capacitor of KVAR capacity with necessary clamps, bolts and nuts to an existing wooden or metal board including banking of more than one capacitor (PWD SR Electrical 99-2000 P. No.28, I. No. 17a)								
		No	17				17	55	935
32	Supplying fixing and wiring pilot lamps board using 3 Nos flush mounted neon indicator lamps, 3 Nos, 5 amps flush switches surface mounted in a gang box or flush mounted in 4mm thick plastic sheet, 3 Nos. of 5 amps bakelite suses and necessary wires (PWD SR Electrical 99-2000 P. No.32, I. No. 5)								
		No	17				17	137	2329
33	Providing and fixing Gun Metal Gate wheel valves confirming to IS specification of approved make as per direction including all lead and lift etc,. complete. 50mm dia (p.223/I.5a)								
		No	36				36		
							20	887.25	17745
	Up to 125%						5	887.25	4436.25
	Above 125%						11	887.25	9759.75
34	KSRB 2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1 (b) / 2.3.5 (P.5/I.2.4 PW, P & IWTD -SR 2010-11)								
		Cum	1	3285	0.6	0.9	1773.9		
			1	110	0.6	0.9	59.4		
			1	82	0.6	0.9	44.28		
			1	78	0.6	0.9	42.12		
			1	70	0.6	0.9	37.8		
						1947.5	1957.5		
							1512	190.8	288489.6
	Up to 125%						378	190.8	72122.4
	Above 125%						575 67.5	220.34	14872.95
35	Providing and installing at site of work 63mm (0.662) P.V.C. pipes of 6 kg./cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete. (P. No.12 I. No. 3.4.2.a) PRED SR. 2010-11								
		M	1	3285			3285		
			1	110			110		
			1	82			82		
			1	78			78		
			1	70			70		
						3607	3625	112.00	406000
36	Providing and installation at site of work 20mm GI Pipes including cost of pipes and specials and labour including lowering into treanches, laying true to line, complete As per Direction of Engineer incharge for Public Taps. For Motor / Pipe line								
		M					51	125.00	6375

37	KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. including cost of all labour complete as per specifications. (P.6/I.2.11 PW, P & IWTD -SR 2010-11)						Deduct the volume of PVC pipes laid in the trench: $\frac{\pi}{4}(0.063)^2 \times 3285 = 40.97$ Cum.		
		Cum	Qty as per item No 34				1957.50	- 40.97	= 1916.53
							1107.00	51.41	56910.87
	Up to 125%					532.78	276.75	51.41	14227.72
	Above 125%					352.78	573.75	58.32	33461.1
									104598.81
	Extra Item								
1	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over burdern upto 20 M. fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimu working of compressor for one hour (excluding cost of casing pipes, collars, cap etc.,) (P. No.36 I. No. 9.1) PRED SR. 2010-11Above 300.00 m depth								
		M					931	520	484120
38	KPTCL Deposits & Service							215+5	200275
2	Miscellaneous and rounding off charges							2.13	233
						Total RS			8200000

Ravi N.K.
Assistant Engineer
Ward No 12

NCH
Assistant Executive Engineer
Shettihalli sub division
Rates are hereby Approved

EXECUTIVE ENGINEER
Executive Engineer,
Bruhat Bangalore Mahanagara Palike
Dasarahalli Division, Bangalore-73

"ನೀಲಿಟಿ"ಕೆ ಕಛೇರಿಯಲ್ಲಿ ಈ ಹಿಂದೆ ಜೀಡಿದ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ಸಂಖ್ಯೆ: CE(D2)/TS/ತಾ/11-12 (ಪಟ್ಟಿಕೆ) ದಿನಾಂಕ 16/7/2011 ನ್ನು ರದ್ದು ಪಡಿಸಲಾಗಿದೆ.

Chief Engineer

ಬೃಬಿಪ/ಪ್ರ.ವ/ತಾ.ಮಂ/ /2012-13
ನಂ. ದಿನಾಂಕ : 11/10/2012.
ರೂ.82,00,000.00/- ಮೊತ್ತಕ್ಕೆ ದಾಸರಹಳ್ಳಿ ಉಪವಿಭಾಗಕ್ಕೆ
ಒದಗಿಸಿಕೊಡಲಾಗಿದೆ.
ಈ ಮುಂದಿನ ಷರತ್ತುಗಳಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.